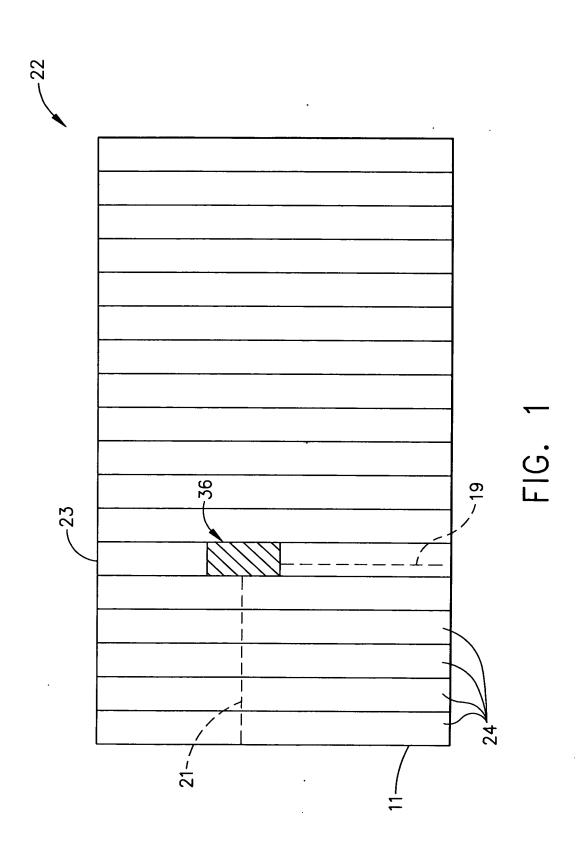
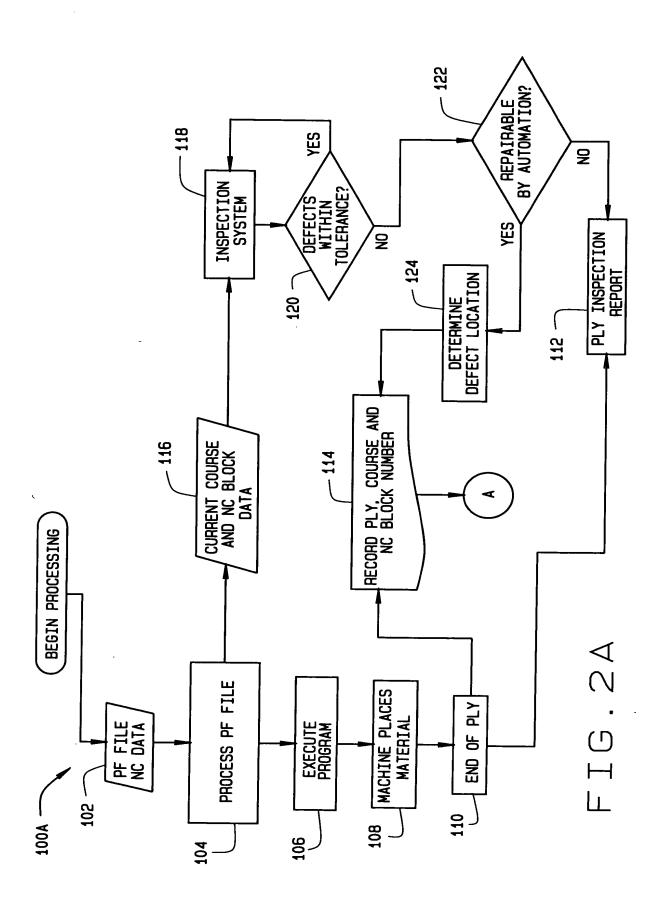
Title: SYSTEMS AND METHODS ENABLING AUTOMATED RETURN TO AND/OR REPAIR OF DEFECTS WITH A MATERIAL PLACEMENT MACHINE

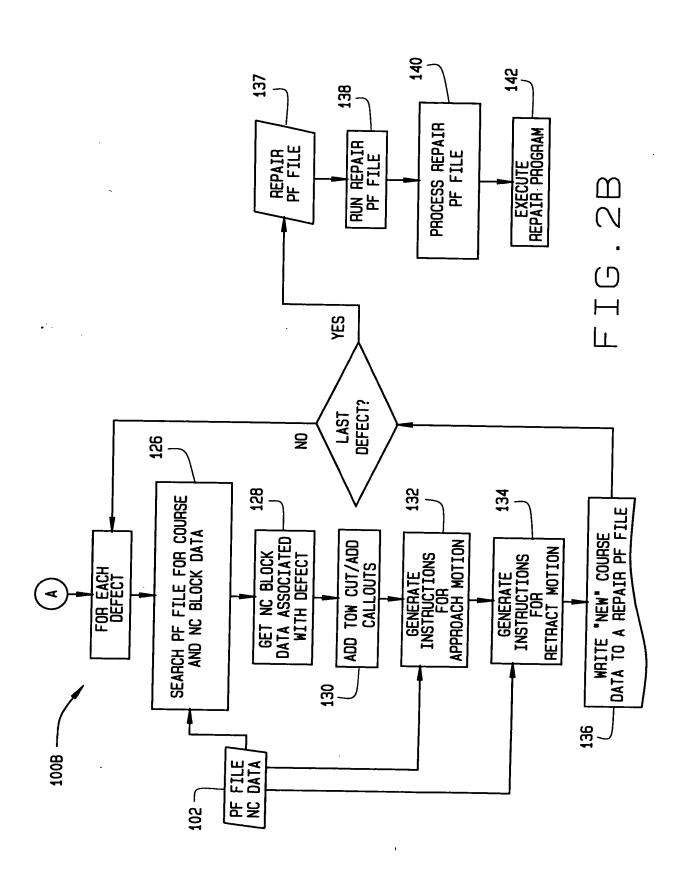
Inventors: Engelbart et al Atty. Ref.: 7784-000624 Attorney Anthony G. Fussner (314) 726-7500 1/13



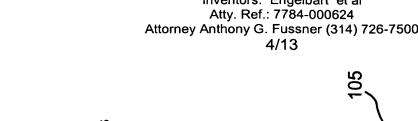
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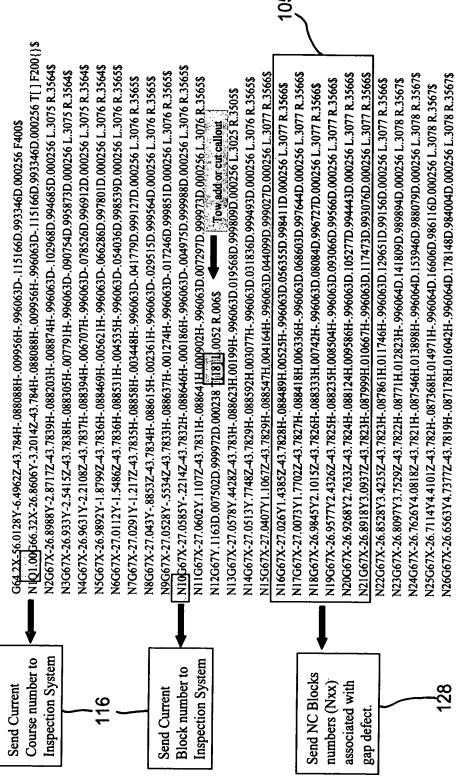


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D Vector is the path tangential vector H Vector is the surface normal

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N76667x-20.96947243135Z-40.3008H-520986H.626242H-579996D.476632D.777133D.410967 L.0691 R.07488
N76667x-20.7996724 6094Z-40.1583H-510021H.627664H-588147D-48232D.774838D.408639 L.3593 R.38718
N77667x-20.7996724 6094Z-40.1583H-510021H.62764H-68051D.495996D.771242D.39702T_5235 R.3923
N79667x-20.54457245 0465Z-39.9483H-48581H.627241H-600615D 495996D.771242D.39702T_5235 R.3923
N79667x-20.1859725.6163Z-39.6704H-489899H.620216H-629676D 482231D.788198D.37294 L.6196 R.65295
N80667x-20.1859725.6163Z-39.7746H-455301H-598149D.78510D.785243D.37308 F4005
R80667x-19.870672-19.8702-43.7724H-461-455301H-598149D.288119D.956602D.043597-F4005
R80667x-24.517956744.051Z-39.7746H-455301H-598149D-288119D.956602D.043597-F4005
R80667x-24.457475.8076Z-43.788H-085193H.020711H-996149D-288119D.956602D.043597-T.1] F200[158
N2667x-24.457475.8076Z-43.7784H-08437H.019658H-996149D-28375D.966349D.043597-L.3343 R.3745
N3667x-24.457475.8076Z-43.7784H-08437H.023829H-996149D-28375D.966349D.043597 L.3497 R.38165
N5667x-24.830577.2001Z-43.7751H-084971H.023829H-996149D-28375D.966349D.043597 L.3497 R.38165
N6667x-24.830577.2001Z-43.7751H-084072H.02482H-996149D-228993D.972451D.043597 L.3497 R.38615

N75G67X-21.0014Y24.256Z-40.3284H-.523185H.625822H-.578467D.475303D.77768D.411462 T[] L.2105 R.2278\$

FIG. 4

Title: SYSTEMS AND METHODS ENABLING AUTOMATED RETURN TO AND/OR REPAIR OF DEFECTS WITH A MATERIAL PLACEMENT MACHINE

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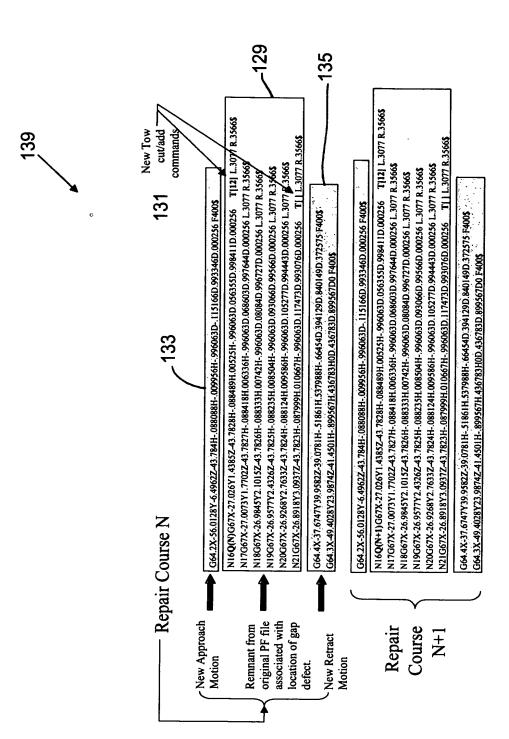


FIG. 5

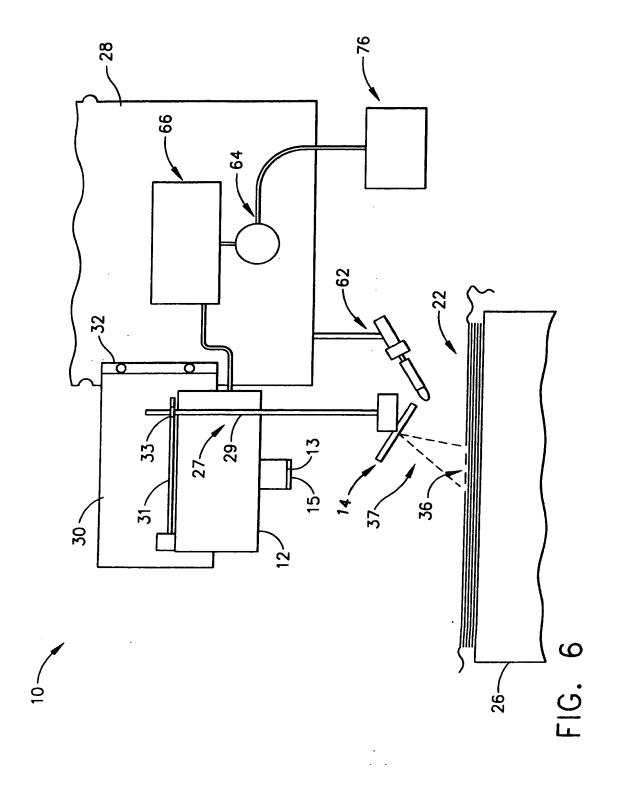
Title: SYSTEMS AND METHODS ENABLING AUTOMATED RETURN TO AND/OR REPAIR OF

DEFECTS WITH A MATERIAL PLACEMENT MACHINE
Inventors: Engelbart et al

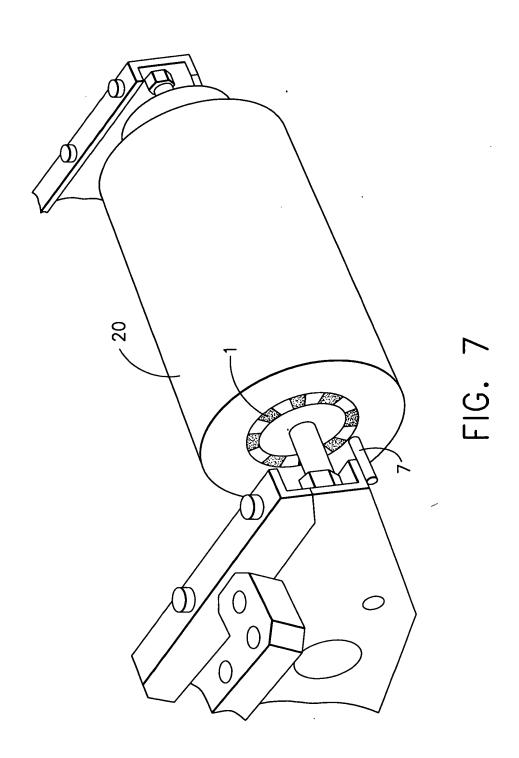
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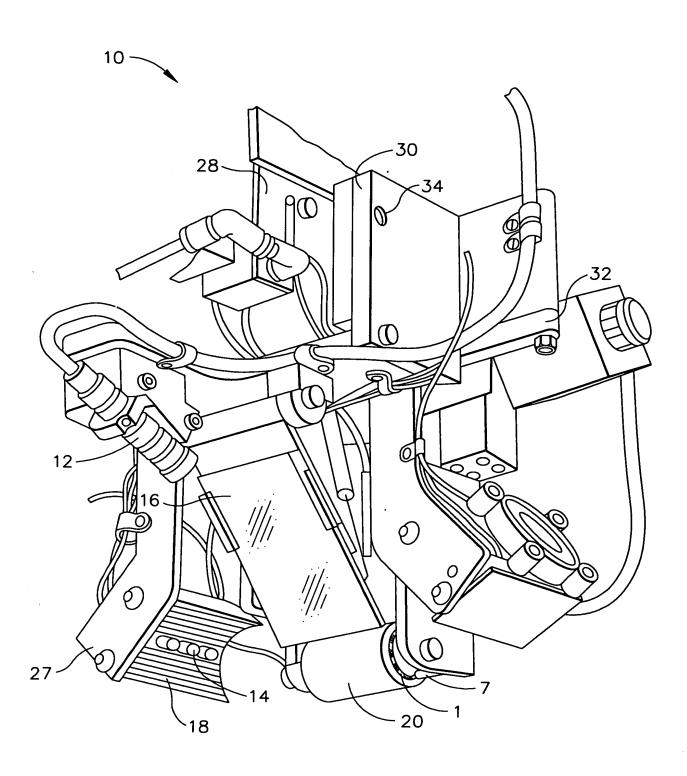
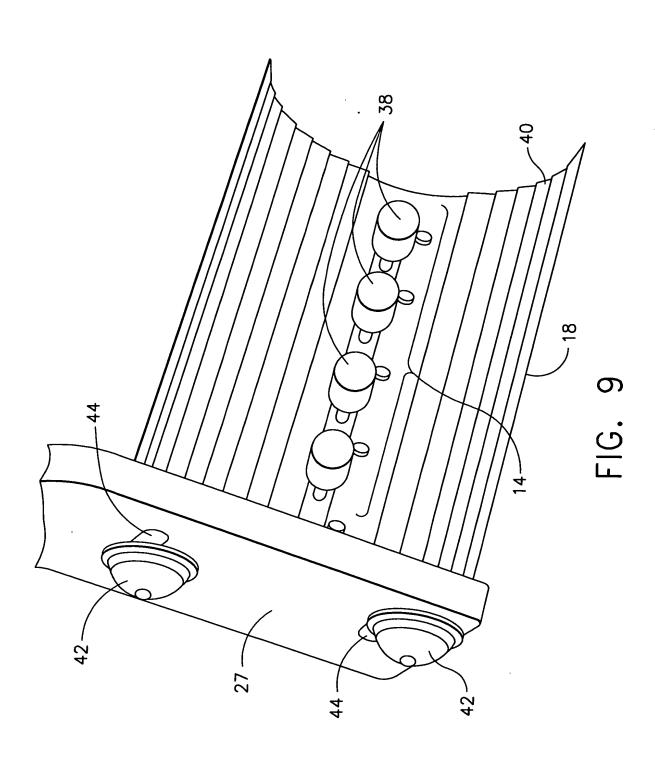
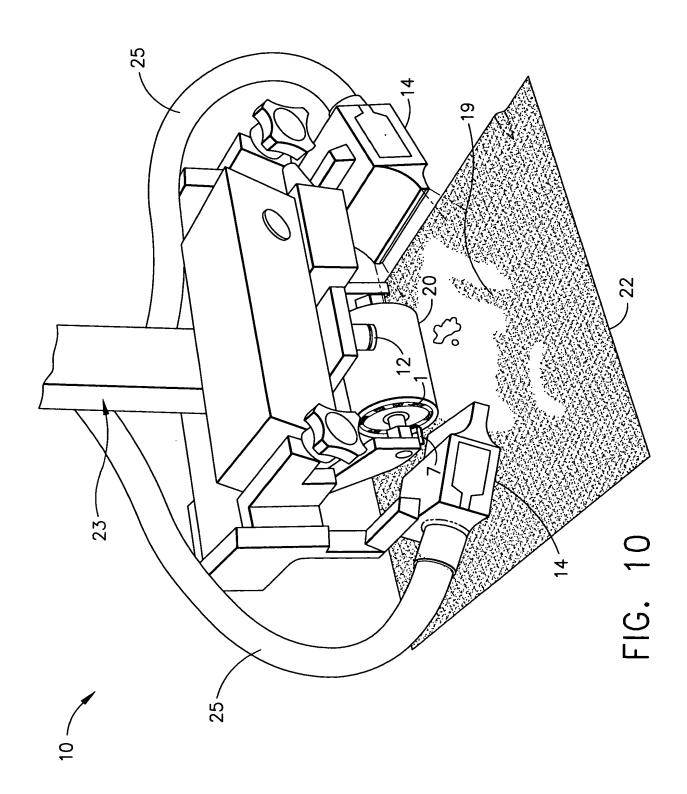


FIG. 8

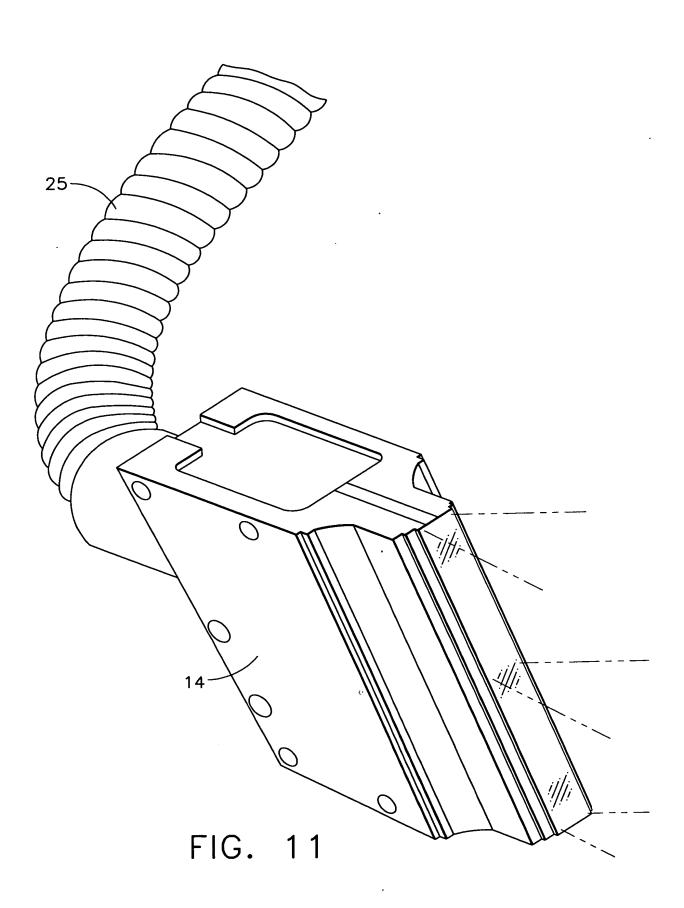
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Attorney Anthony G. Fussner (314) 726-7500
11/13



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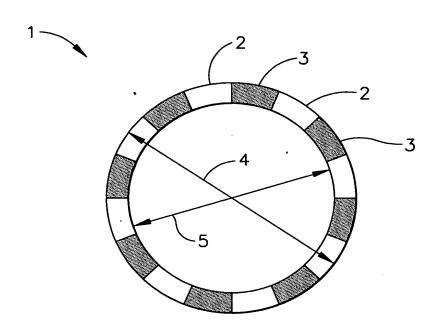


FIG. 12